Ranger 1621.

A New Almanacke and Prognostication, for the yeare of our Lord God. 1621.

Being the yeare from the worlds Creation 5583. and the first after Leap-yere.

Calculated and properly referred to the Meridian of the Honorable City of YORK: where the Pole is raised aboue the Horison 54. degrees 20. min. And whose Longitude is reckoned 23 deg. 30 min. So that it may serue without sensible error for the Honorable City of London.

By Phillip Ranger Gent: and a smatterer in the neuer sufficiently to be admired Arts Mathematicall.

LONDON,
Printed for the Company of Stationers.

A Compendious Chronologie or Computation of yeares.

	yeares
SInce the Creation of the World.	5583
Since the Flood of Noah.	3925
Since Israels departure out of Egypt.	3129
Since Solomon built the Temple.	2634
Since London was built.	2729
Since Yorke was built.	2587
Since the building of Yorke-Minster.	902
Since K William conquered England.	553
Since Pauls Church in London was built.	535
Since Westminster-hal was built by K.W.Rufs.	522
Since London bridge was built of stone.	445
Since the first inuention of Guns.	241
Since the inuention of Printing.	161
Since D. Luther detected Popish falshoods.	104
Since K H.8. crushed the Popes power in Eng.	87
Since the Rebellion in Yorkshire by Aske.	84
Since Register bookes began in euery Parish.	83
Since K. Henry conquered Bullen.	77
Since the beginning of blessed Q. Eliz Reigne.	63
Since Ouse bridge at Yorke was broken down.	57
Since the birth of our Soue. K. Iames, Iun 19	54
Since the rebellion of ỳ two Northren Earles.	52
Since the great massacre in France by Papists.	49
Since the first deepe Snow.	42
Since the generall Earth-quake.	41
Since Tilbury Campe.	33
Since the surprising of Cadiz by ỳ E. of Essex.	25
Since the last great plague in London.	18
Since the damnable Gunpowder plot. Nou: 5.	16
Since the last great Frost.	13
Since the last great Snow.	6
Since ỳ Coronation of K. Iames in Scotl. Iul. 29	54
Since the Kings Inauguration in Eng. Mar. 24	18

A perfect and necessary Rule for the Termes, with their Returnes.

Hillary Tearme beginneth the 23. of January and endeth the 12. of Febr. hath 4 returnes:
- Octab. Hillar. Jan 20.
- Quind. Hillar. Jan 27.
- Craſt. Purif. Febr. 3.
- Octab. Purif. Febr. 10.

Starre-Chamber dayes. Jan. 24. 26. 31. Feb. 7. 9. 13.

Eaſter Tearme beginneth the 18. of Apr. & endeth the 14 of May. hath 5. returnes:
- Quind. Paſch. Apr. 16.
- Tres Paſch. Apr. 23.
- Menſe Paſch. Apr. 30.
- Quinq Paſch. May 7.
- Craſt. Aſcenſ. May 11.

Star-Chamber dayes. Apr. 20. 25. 27. May 2. 5. 9. 11. 15

Trinitie Tearme beginneth the 1. of June and endeth the 20. of June. hath 4. returnes:
- Craſt. Trin. May 28.
- Octab. Trin. June 4.
- Quind. Trin. June 11.
- Tres Trin. June 18.

Starre-Chamber dayes June 6. 8. 13. 15. 20. 21.

Michaelmas Tearme beginneth the 9. day of October and endeth the 28. of November. hath 8. returnes.
- Octab. Mich. Octob. 6.
- Quind. Mich. Octo. 13.
- Tres Mich: Octob. 20.
- Menſe Mich. Octob. 27.
- Craſt. Anima. Nov. 3.
- Craſt. Martin. Nov. 13.
- Octabis Mar. Nov. 18.
- Quind. Marti. Nov. 25.

Starre-Chamber dayes Octo 10. 12. 17. 19. 24. 26. 31 November, 2. 7. 9. 14. 16. 21. 23. 28. 29.

The Anatomy of mans body.

Aries the head and face.

Taurus necke & throat.

Gemini Armes and houlders.

Cancer Breast stomack & ribs.

Leo heart and backe.

Virgo bowels and belly.

Libra Reines and Loynes.

Scorpio Secret members.

Sagitarius the Thighs.

Capricornus the knees.

Aquarius the Legs.

Pisces the feete.

♈ Aries, ♉ Taurus, ♊ Gemini, ♋ Cancer, ♌ Leo, ♍ Virgo, ♎ Libra, ♏ Scorpio, ♐ Sagitarius, ♑ Capricornus, ♒ Aquarius, ♓ Pisces.

♄ Saturne, ♃ Iupiter. ♂ Mars, ☉ Sol, ♀ Venus ☿ Mercurius ☽ Luna ☊ Caput Drac. ☋ Caud. Drac

Ordinary or vulgar Obseruations.

Iulian or English Accompt.		Gregorian or Romish Accompt.
7	The Golden number	17
17	The Epact.	7
G	The Dominical letter.	C
January 28	Septuagesima.	January 28
Febuary 14	Ashwednesday	Febuary 14
April 1	Easter day.	April 1
May 10	Ascension day.	May 10
May 20	Whitsunday.	May 20
Decemb. 2	Advent Sunday.	November 18

Ianuary hath xxxi. daies.

The old yeare's paſt, the new doth now begin,
Put off the old man, abandon deadly ſinne:
Such as determine in their ſinnes to dwell,
There is no hope but they run poſt to hell.

Sun riſeth at Yorke.

1	g	Circumciſion.	Ar.	6		8 17
2	h	Octa. Steph.	Ar.	21		8 16
3	c	Octa. Joh.	Lib.	5		8 15
4	d	Oct. Innocēt.	Lib.	20	☾ Laſt quarter the 4. day 23. paſt 7. at night	8 13
5	e	Dep. of Edw.	Sco.	3		8 12
6	f	Twelfe day.	Sco.	17		8 11
7	g	Felix & Jan.	Sag.	0		8 9
8	a	Lucian.	Sag	12		8 8
9	b	Polin Aquar.	Sag	25		8 7
10	c	Paul herm.	Cap.	7		8 5
11	d	Linus mart.	Cap.	19	● New moon the 12 day, 25. min. paſt 2. a cloke in the afternoone.	8 4
12	e	Archad. mart.	Aqu.	1		8 2
13	f	Hillary biſh.	Aqu	12		8 0
14	g	Felix Prieſt.	Aqu.	24		7 58
15	a	Maurice.	Pic.	6		7 56
16	b	Marcellus.	Pi.	17		7 54
17	c	Anthon. depoſ.	Pi.	29		7 52
18	d	Prisca virgin.	Ari.	12		7 50
19	e	Wolſtan biſh.	Ari.	24		7 48
20	f	Fab. and Seb.	Tau	7	☽ Firſt quar. the 20. day at high noone.	7 46
21	g	Agnes virgin.	Tau	20		7 44
22	a	Vincent mar.	Gem	3		7 42
23	b	Germē begins	Gem	17		7 40
24	c	Timothens.	Can.	1		7 39
25	d	Conu. of Paul.	Can.	15		7 37
26	e	Policarp. biſh.	Leo	0	○ Full moone the 27. day 3. quarters paſt 2. after noone.	7 36
27	f	Chriſoſtome.	Leo.	15		7 34
28	g	Septuageſima.	Vir.	0		7 33
29	a	Valerius biſh.	Vir.	15		7 31
30	b	Batilde.	Lib.	0		7 29
31	c	Saturnine.	Lib.	15		7 27

Be quiet, and ſober, and good diet vſe,
The helpe of good Phiſicke now do not refuſe:
The ſpring commeth on thy blood doth increaſe
Of ſin purge thy ſoule, th God make thy peace.

Sun riſeth at Yorke.

1	d	Bridget Faſt.	Lib. 29		7	25
2	e	Purif. Mary	Sco. 13		7	23
3	f	Blaſe. Bish.	Sco. 26	☾ Laſt quart.	7	21
4	g	Sexageſima.	Sag. 9	☽ 3 day at 8 in	7	19
5	a	Agathe.	Sag 22	the morning.	7	16
6	b	Dorothy.	Cap. 4		7	14
7	c	Angule.	Cap. 16		7	12
8	d	Sol in Piſces.	Cap 28		7	10
9	e	Paul Bishop.	Aqu. 10	● New Moon	7	8
10	f	Scholaſticus.	Aqu. 21	the 11. day	7	6
11	g	Quinque fund.	Pis. 3	23 min: paſt 9	7	4
12	a	Terme ends.	Pis. 15	a cloche in the	7	2
13	b	Policron Bish	Pis. 26	morning.	7	0
14	c	Valentine.	Ari. 8		6	58
15	d	Iulian virg.	Arie 20		6	56
16	e	Conſtance.	Tau. 3		6	53
17	f	Policron.	Tau. 15	☽ First quar.	6	51
18	g	Quadrageſima.	Tau 28	the 19 day 3	6	49
19	a	Sabinus.	Gem. 12	quarters paſt 8	6	47
20	b	Wilfred virg.	Gem. 25	in the morning	6	45
21	c	Ember Faſt.	Can. 9		6	43
22	d	Cathed Pet:	Can. 24		6	31
23	e	Policarp Faſt	Leo. 9	● Full Moon	6	39
24	f	Mathias Apo.	Leo. 24	the 26 day,	6	37
25	g	2. Sund. in Lent	Vir. 9	halfe an houre	6	34
26	a	Nestor mart:	Vir 24	before 1 in the	6	31
27	b	Auguſt. Bish.	Lib. 8	morning.	6	28
28	c	Oſwalde.	Lib. 23		6	26

March hath xxxi. dayes.

Set Pumpions and Citrons, March counſelleth ſo
Wih Roſemary, Rue, Sage, and other herbes mo:
Plant goodneſſe and foſter it ſtill in thine heart,
And God his good bleſſings to thee will impart.

Sun riſeth at Yorke

1	d	Dauid Biſh.	Sco. 7		6	23
2	e	Chas	Sco. 21		6	21
3	f	Maurice.	Sag. 4		6	18
4	G	3. ſun. in Lent.	Sag. 17	☾ Laſt quart.	6	15
5	a	Euſebius.	Cap. 0	the 4 day, a	6	13
6	b	Victorinus.	Cap. 13	quarter paſt	6	10
7	c	Perpetue.	Cap 25	11 a clocke at	6	8
8	d	Felix depoſed.	Aqua. 7	night.	6	6
9	e	46 martyrs	Aqu. 19		6	3
10	f	Sol in Aries.	Piſc. 1		6	0
11	G	4. ſun. in Lent	Piſ. 12		5	58
12	a	Gregory Biſh	Piſ. 24	● New Moon	5	55
13	b	Theodorus.	Aries 6	the 13 day, 23	5	53
14	c	Peter mar.	Aris. 18	minutes paſt 3	5	51
15	d	Longius War	Tau. 0	in the morning	5	49
16	e	Gertude.	Tau. 12		5	47
17	f	Patricke. biſh	Tau. 25		5	45
18	G	5 ſun. in Lent	Gem. 8	☽ Firſt quart	5	43
19	a	Joſeph marihuſ	Gem. 21	the 19 day,	5	41
20	b	Cuthbert.	Can. 5	halfe an houre	5	39
21	c	Benedict.	Can. 19	paſt 7. at night	5	37
22	d	Afrodoſo.	Leo 3		5	35
23	e	Theodore.	Leo 18		5	33
24	f	Init. Rex. Jac.	Virgo 3		5	31
25	G	Anun. of Mary	Vir. 17	○ Full moone	5	29
26	a	Taſtor mart.	Lib. 2	the 27 day a	5	27
27	b	Paztian.	Lib. 17	little before 10	5	25
28	c	Dorothy virg.	Sco. 1	a clocke in the	5	23
29	d	Quintinus.	Sco. 15	morning.	5	21
30	e	Quirine.	Sco. 29		5	19
31	f	Adelme.	Sag. 12		5	17

The pores are ope, and ſtrength doth now renew
And learned men may Phyſicke giue to you:
But whilſt you ſeeke your bodies to preſerue,
Let not your ſoules for food eternall ſterue.

					Sun riſeth at Yorke.
1	G	Eaſter day.	Sag. 25		5 14
2	a	Mary Egypt.	Cap. 8		5 12
3	b	Richard Biſh.	Cap. 21	☾ Laſt quart.	5 10
4	c	Ambroſe.	Aqu. 3	the 3. day a lit=	5 8
5	d	Martian.	Aqu. 15	tle paſt 3. a	5 6
6	e	Sextus mart.	Aqu. 27	clock in the	5 3
7	f	Euphemia vir.	Piſ. 9	afternoone.	5 1
8	G	1 Sun. aft. Eaſt.	Piſ. 21		4 59
9	a	Perpetuus.	Aries 3		4 57
10	b	Sol in Taur.	Arie. 15	● Newe moon	4 55
11	c	7 Virgins.	Ari. 27	the 11 day a	4 53
12	d	Guthlake.	Tau. 9	little paſt 8.	4 51
13	e	Julius biſh.	Tau. 22	at night.	4 49
14	f	Zenon.	Gem. 5		4 46
15	G	2 ſund. aft. Eaſt.	Gem. 18		4 44
16	a	Ysodore.	Can. 1		4 42
17	b	Olaund.	Can. 15		4 40
18	c	Terme begins	Can. 29	☽ Firſt quart.	4 38
19	d	Alphage mart.	Leo 13	the 19. day 3.	4 36
20	e	Victor mart.	Leo 28	quarters paſt	4 34
21	f	Simeon Conf.	Vir. 12	3. a clocke in	4 32
22	G	3 ſund. aft. Eaſt.	Vir. 27	the morning.	4 30
23	a	S[t]. George.	Lib. 12		4 28
24	b	Wilfride biſh.	Lib. 26		4 26
25	c	Marke Euan.	Sco. 10		4 24
26	d	Cletus	Sco. 24		4 22
27	e	Anaſtatius.	Sag. 7	● Full Moon	4 20
28	f	Vitalis.	Sag. 20	the 25. day 40	4 19
29	G	4. ſund. aft. Eaſt.	Capr. 3	min. paſt 7. a	4 17
30	a	Erkenwalde.	Cap. 16	clock at night	4 15

May hath xxxi. dayes.

Tis sweet to walke betimes into the field,
And heare the musicke pleasant birds do yeeld:
But as you walke sweet flowers home to bring,
Learne to be deafe when wicked Syrens sing.

Sun riseth at Yorke.

1	b	Phil & Iacob	Cap. 28		4	14
2	c	Athanasius.	Aqu. 11		4	12
3	d	Inuen. Crosse	Aqu. 23	☾ Last quarter	4	10
4	e	Christopher.	Pis. 5	the 3. day a-	4	8
5	f	Goddard.	Pis. 17	bout 10. in the	4	7
6	g	Rogat. Sanct	Pis. 29	morning.	4	5
7	a	John of Beu.	Ari. 11		4	3
8	b	Appari. Mich.	Arie. 24		4	1
9	c	Trans. Nicho.	Tau. 6		3	59
10	d	Ascension day.	Tau. 19	● New moone	3	58
11	e	Sol in Gemini	Gemi. 1	the 11. day 25	3	56
12	f	Nereus.	Gem. 14	min past 8. in	3	55
13	g	6. sund aft. East	Gem. 28	the morning.	3	53
14	a	Tecume ende	Can. 11	Sun eclipsed.	3	52
15	b	Isodor.	Can. 25		3	51
16	c	Sophia virg.	Leo 9	☽ First quar.	3	49
17	d	Trans. of Bar	Leo 24	the 18. day 9	3	48
18	e	Ethelbright	Vir. 8	min. past 7. in	3	47
19	f	Dunstane arch	Vir. 23	the morning.	3	45
20	g	Whitsunday.	Libr. 7		3	44
21	a	Helene Quen	Libr. 22		3	43
22	b	Julian virg.	Scor. 6		3	42
23	c	Ember Fast.	Sco. 19		3	41
24	d	Urbanus.	Sagit. 3	● Full moone	3	40
25	e	Aug. of Cant.	Sag. 16	25 day a quar-	3	39
26	f	Beda Prie.	Sag. 29	ter past 6 a	3	38
27	g	Trinitie Sun	Cap. 11	clocke in the	3	37
28	a	Germane bish.	Cap. 24	morning.	3	36
29	b	Alchomede.	Aqua 6		3	35
30	c	Felix bish.	Aqu 18		3	34
31	d	Petronil virg	Pis. 0		3	33

Hot ſpice is naught, ſtrong wines inflame,
Sweet meates are worſe, much ſleepe the ſame:
But ſinfull ryot worſt of all is deemd, (deemd.
Damne not thy ſoule which Chriſt hath now re-

					Sun riſeth at Yorke.
1	e	Terme begins	Piſc. 12		3 33
2	f	Marcellne.	Piſc. 25		3 33
3	G	1 Sun. af. Trin.	Arie. 7	☾ Laſt quart.	3 32
4	a	Petroſius.	Arie 19	the 2. day halk	3 32
5	b	Boniface mar.	Tau. 2	an houre paſt 3	3 32
6	c	William conf.	Tau 14	in the morning	3 32
7	d	Wolſtane.	Tau 27		3 31
8	e	Medard	Gem 10		3 31
9	f	Edmund.	Gem 24		3 31
10	G	2 Sun. af. Trin.	Can. 7	● New moon	3 31
11	a	Sol in Cancer.	Can. 21	the 9 day more	3 31
12	b	Longeſt day.	Leo. 6	then 3 quart.	3 31
13	c	Anthony.	Leo. 20	of an hour paſt	3 31
14	d	Baſil Biſhop.	Vir. 5	6 in the after-	3 31
15	e	Vitt. & Mod.	Vir. 19	noone,	3 31
16	f	Tran. Richard	Lib. 4		3 32
17	G	3 ſun. aft. Trin.	Lib 18		3 32
18	a	Marcus mart.	Sco. 2	☽ Firſt quart.	3 32
19	b	Nat. K. Iames.	Sco. 16	the 16. day,	3 32
20	c	Terme ends.	Sco 29	a quarter	3 32
21	d	Malburga vir.	Sag. 12	paſt high noone	3 33
22	e	Alban mart.	Sag. 25		3 33
23	f	Audry, Faſt.	Cap. 8		3 34
24	G	S. John Bapt	Cap. 20	● Full moone	3 34
25	a	Amandus.	Aqu. 2	the 23 day, a	3 35
26	b	Leo bish.	Aqu. 14	quarter paſt 6	3 35
27	c	Creſcens.	Aqu. 26	a clock at night	3 36
28	d	Faſt	Piſc. 8		3 37
29	e	S. Peter.	Piſc. 20		3 38
30	f	Con. of Paul.	Arie. 2		3 39

What pleaſeth Iune likes Iuly beſt,
Cold bathes they loue among the reſt:
The graſſe that growes to morrowe's hay,
And man that's now as ſoone is clay.

						Sun riſeth at Yorke.
1	☉	5 Sun af Trin.	Arie 14			3 40
2	a	Viſit. of Ma:	Arie 27	☾ Laſt quart.		3 42
3	b	Tran. Tho. ap	Tau. 9	the 1 day a		3 43
4	c	Tran. of Mar.	Tau. 22	little paſt 8 at		3 44
5	d	Zoe Virgin.	Gem. 5	night.		3 45
6	e	Dog dar begin	Gem. 19			3 47
7	f	Martiall.	Can. 2			3 48
8	☉	6 Sun af. Trin.	Can. 16	● New moon		3 49
9	a	Cyril Bish.	Leo 1	the 9 day 25		3 51
10	b	7 Bzeth mart.	Leo 15	minutes paſt 3		3 52
11	c	Tran. of Ben.	Vir. 0	in the mozning		3 53
12	d	Nabor & Fel.	Vir. 15			3 55
13	e	Sol in Leo.	Vir. 29			3 56
14	f	Bonauenture.	Lib. 14	☽ Firſt quar.		3 58
15	☉	7 Sun. af. Trin.	Lib. 28	the 15 day 50		3 59
16	a	Tran. of Oſm.	Sco. 12	minutes paſt 5		4 1
17	b	Kenemle King	Sco. 26	a clocke at		4 3
18	c	Arnulphus.	Sag. 9	night.		4 5
19	d	Ruſtin & Juſt	Sag. 22			4 7
20	e	Margaritg.	Cap. 5			4 8
21	f	Praxede. vir.	Cap. 17	○ Full moone		4 10
22	☉	8 Sund. aft. trin.	Cap. 29	the 23 day, a-		4 11
23	a	Apolina.	Aqu. 11	bout 8 a clocke		4 13
24	b	Kall.	Aqu. 23	in the mozning		4 15
25	c	S. James.	Pis. 5			4 16
26	d	Anna mat Ma	Pis. 17			4 18
27	e	7 Sleepers.	Pisc. 28	☾ Laſt quar.		4 20
28	f	Sampſon.	Arie. 10	31. day halfe		4 22
29	☉	Init. Reg. Sco.	Ari. 22	an houre before		4 24
30	a	54 yeares ago	Tau. 5	high noone.		4 25
31	b	Germanus.	Tau. 17			4 27

August hath xxxi. daies.

Now gather thy fruits, God send thee good store,
Remember to giue some part to the poore:
Lend them that want, the Almighty fauoreth such,
And in short time repayes them twise as much.

					Sun riseth at Yorke.	
1	e	Lammas day.	Gem. 0		4	29
2	d	Stephanus.	Gem. 13		4	31
3	e	Inuent. Step.	Gem 27		4	33
4	f	Aristarchus.	Can. 10		4	35
5	G	Dowries conf.	Can. 25	● New moone	4	37
6	a	Trans. Christ.	Leo 9	the 7. day halfe	4	39
7	b	Festum Jesu.	Leo 24	an houre be-	4	41
8	c	Ciriacus.	Vir. 9	fore high noon	4	43
9	d	Romanus.	Vir. 24		4	45
10	e	Lawrence mar	Libr. 9		4	47
11	f	Tiburt Mar.	Libr. 24		4	49
12	G	11. Sun. af. trin	Sco. 8		4	51
13	a	Sol in Virgo.	Sco. 22	☽ First quart.	4	53
14	b	Eusebius.	Sag. 6	the 14. day	4	55
15	c	Assumpt. Mar.	Sag. 19	10 min. past	4	57
16	d	Rochus Conf.	Cap. 2	2. in the mor=	4	59
17	e	Oct. Lawrence	Cap. 14	ning.	5	1
18	f	Agapitus.	Cap. 27		5	3
19	G	12. Sun. af. trin.	Aqu. 9		5	6
20	a	Leonard.	Aqu. 21	● Full Moon	5	8
21	b	Barnard.	Pisc. 2	the 21. day	5	10
22	c	Priuarus.	Pisc. 14	halfe an houre	5	12
23	d	Timoth. Fast	Pisc. 25	before mid=	5	14
24	e	Barthol. Apost	Arie. 7	night.	5	16
25	f	Lodouic. king.	Arie. 19		5	18
26	G	13. Sun. aft. Trin	Tau. 1		5	20
27	a	Dog daies end	Tau. 13	☾ Last quar.	5	22
28	b	Augustine.	Tau. 25	the 30. day a	5	25
29	c	Decol. Joh. ba	Gem. 8	quarter past 2.	5	27
30	d	Felix & Andr.	Gem 21	in the morning	5	29
31	e	Cuthburga vir	Canc. 5		5	32

September hath xxx. daies.

Yee Cleargy men that share the tenths of poore mens paine,
Striue by your paynes their soules for God to gaine:
Yee Countrey men pay God what is his due, and more,
And God will blesse you with abundant store.

1	f	Egidius Abb.	Can. 19		5	35
2	G	14. sun. af. trin.	Leo. 3		5	38
3	a	Gregory.	Leo 18		5	40
4	b	Trans. of Cut.	Vir. 2		5	42
5	c	Bertine.	Vir. 17	● New moon	5	44
6	d	Eugenius.	Lib. 3	the 5. day halfe	5	46
7	e	Nat. R. Elizab.	Lib. 17	an houre past	5	48
8	f	Nat. of Mar.	Sco. 1	7. at night.	5	50
9	G	15 Sun aft. trin	Sco. 17		5	52
10	a	Siluius mart.	Sag. 1		5	54
11	b	Proth. & Iac.	Sag. 14	☽ First quart	5	56
12	c	Wilfride.	Sag. 28	the 12 day at	5	58
13	d	Sol in Libra.	Cap. 11	2 a clocke in	6	0
14	e	Holy Crosse.	Cap. 23	the afternoone.	6	2
15	f	Oct. Mary.	Aqu. 6		6	5
16	G	16. Sun. af. trin	Aqu. 18		6	7
17	a	Lambart.	Pis. 0		6	9
18	b	Vict. & Cor.	Pis. 12		6	11
19	c	Ember Fast.	Pisc. 23	● Full moone	6	13
20	d	Eustace.	Arie. 5	the 20. day	6	15
21	e	Matthew Apo	Ari. 16	a quarter of an	6	17
22	f	Tecla Virg.	Arie 28	houre past 4.	6	19
23	G	17. sun. af. trin.	Tau. 10	in the after=	6	22
24	a	Androcher.	Tau. 22	noone.	6	24
25	b	Firminus.	Gem. 5		6	26
26	c	Cyprian.	Gem 17	☾ Last quar.	6	28
27	d	Cosm. & Dam.	Gem 30	the 28 day	6	31
28	e	Exuper.	Can. 14	halfe an houre	6	33
29	f	Michael Arch	Can. 28	past 1 aft. noon.	6	35
30	G	18. sund. af. trin.	Leo 12		6	38

October hath xxxi. dayes.

October warnes warme cloathes prouide,
Gainst winters furious rage:
And grace inuites repent betimes,
Gods furious wrath to swage.

					Sun riseth at Yorke.
1	a	Remigius bish	Leo. 20		6 41
2	b	Leodegarius.	Vir. 11		6 43
3	c	Candidus.	Vir. 26	● New moon	6 45
4	d	Francis.	Lib. 11	the 5 day halfe	6 48
5	e	Apollinaris.	Lib. 26	an houre past 4	6 50
6	f	Faith virgin.	Sco. 11	in the morning	6 52
7	G	19 Sun. af. trin.	Sco. 25		6 54
8	a	Pelagius.	Sag 9		6 57
9	b	Terme begin	Sag. 22	☽ First quart.	6 59
10	c	Gedeon mart.	Cap. 6	the 12 day,	7 1
11	d	Michaelis.	Cap 19	37 minutes	7 3
12	e	Wilfride bish.	Aqu. 2	past 5 in the	7 5
13	f	Sol in Scorp.	Aqu. 14	morning.	7 7
14	G	20 Sun. af. trin.	Aqu. 26		7 9
15	a	Wolfraine.	Pis. 8		7 11
16	b	Wich of moun	Pis. 20		7 14
17	c	Florentinus.	Arie. 2	● Full moon	7 16
18	d	S. Luke Eua	Arie. 14	the 20 day halfe	7 18
19	e	Frideswide.	Arie. 26	an houre past 9	7 20
20	f	Austrob virg.	Tau. 7	in the morning	7 22
21	G	21 Sun. af. trin.	Tau. 20		7 24
22	a	Mary Salum.	Gem. 2		7 26
23	b	Romanus	Gem 14		7 28
24	c	Maglory.	Gem 27	☾ Last quart.	7 30
25	d	Crisc. & Crisp.	Can. 10	the 27 day, 3	7 32
26	e	Euaristus.	Can. 24	quarters of an	7 34
27	f	Florence. Fast	Leo. 7	houre past 10	7 36
28	G	Simon & Jud.	Leo, 22	at night.	7 38
29	a	Narcissus.	Vir. 6		7 40
30	b	Germanus.	Vir. 21		7 42
31	c	Quintine. Fast	Lib. 5		7 44

Nouember hath xxx. dayes.

Now earth is clothed in horrid weeds,
All flowrishing flowers are faded:
It well resembles state of man
When life by death is inuaded.

Sun riseth at Yorke.

1	d	All Saints	Lib. 20		7	46
2	e	All-Soules	Sco. 5		7	48
3	f	Winifride.	Sco. 19	● New moon	7	50
4	G	23. Sun. af. trin.	Sag. 3	the 3 day 24	7	52
5	a	Papists consp.	Sag. 17	minutes past 2	7	
6	b	Leonard	Cap. 0	in the after-	7	
7	c	Willibrode ar.	Cap. 14	noone.	7	
8	d	4 Crowned.	Cap. 27		7	59
9	e	Theodore.	Aqu. 9		8	1
10	f	Martin.	Aqu. 22	☽ First quar.	8	2
11	G	24. Sun. af. trin.	Pis. 4	the 11 day,	8	4
12	a	Sol in Sagitar	Pis. 16	40 minutes	8	6
13	b	Brice bish.	Pis. 28	before 1 a clock	8	7
14	c	Transl. Erken.	Ari. 10	in the morning	8	8
15	d	Machute.	Ari. 22		8	9
16	e	Edmund arch.	Tau. 4		8	11
17	f	Q. Elizabeth.	Tau. 17	● Full moon	8	12
18	G	25. Sun. af. trin.	Tau. 29	the 19 day, a	8	13
19	a	Nat. Pr. Charl.	Gem 11	little after 2 in	8	14
20	b	Edmund King	Gem 24	the morning.	8	15
21	c	Pres. of Mary.	Can. 7	Eclipsed.	8	16
22	d	Cicelly virg.	Can. 20		8	17
23	e	Clement mart.	Leo. 4		8	18
24	f	Grisogon. mar.	Leo. 18	☾ Last quar.	8	19
25	G	26 Sun. af. trin.	Virg. 2	the 26. day	8	21
26	a	Linus.	Vir. 17	more then half	8	22
27	b	Agricola.	Lib. 1	an houre past 6	8	23
28	c	Terme ends.	Lib. 16	in the morning.	8	24
29	d	Fast	Sco. 0		8	25
30	e	S. Andrew.	Sco. 14		8	26

December hath xxxi. daies.

Now Fowlers set their lime-twigs birds to take,
Whiles traps for innocents some people make:
Some now prepare to spend some of their store,
But God the next yeare sends the much the more.

Sun riseth at Yorke.

1	f	Eligius bish.	Sco. 28		8	26
2	g	Advent. Sund	Sag. 12	● New moon	8	27
3	a	Libanius	Sag. 26	the 3. day	8	27
4	b	Barbara virg	Cap. 9	36 min. past	8	28
5	c	Sabx abbot.	Cap. 22	2 in the morn.	8	28
6	d	Nicholas bish.	Aqu. 4		8	28
7	e	Ambrose bish.	Aqu. 17		8	29
8	f	Concept. Mar	Aqu. 29		8	29
9	g	2 Sun. in Adu.	Pis. 12	☽ First quart	8	29
10	a	Eulaly virg.	Pis. 24	the 10 day at	8	29
11	b	Sol in Capric.	Arits 6	9. at night.	8	29
12	c	Paul bish.	Ari. 18		8	29
13	d	Lucy virg.	Tau 0		8	29
14	e	Januarius.	Tau. 13		8	29
15	f	Valerius.	Tau. 25		8	29
16	g	3 Sund. in Adu.	Gem. 7		8	28
17	a	Ignatius	Gem. 20	○ Full moone	8	28
18	b	Gratian.	Can. 4	the 18 day	8	28
19	c	Ember Fast.	Can. 17	at 5. at night.	8	27
20	d	Fast	Leo 0		8	27
21	e	Thomas Apost	Leo 14		8	26
22	f	30. Martyrs.	Leo 28		8	26
23	g	4. Sun. in Adu.	Vir 12	☾ Last quarter	8	25
24	a	Fast	Vir. 27	foze 25. day	8	24
25	b	Nat of Christ.	Lib. 12	at 2 at ocke	8	23
26	c	S Stephen	Lib. 26	in the after-	8	22
27	d	S John Euan	Sco. 11	noone.	8	21
28	e	Innocents	Sco 25		8	20
29	f	Tho. of Cant.	Sag 8		8	19
30	g	Trans. of Jam.	Sag 22		8	18
31	a	Silu. ſt. Bish.	Cap. 5		8	17

A Prognoſtication, for the yeare of our Redemption, 1621.

Being the firſt after the Leap-yeare.

Wherein is ſet downe diuers notes and obſeruations both *Phiſicall, Aſtronomicall, & ciuill,* whereunto are annexed many cõpendious Tables fit for ſundry occaſions, & ſorts of men, which the ingenious may vſe to their pleaſure and profit.

By *Philip Ranger* Gent.
And louer of the Mathematickes.

LONDON,
Printed for the Company of Stationers. 1621.

A Prognoſtication.

Aſtronomicall Calculations for this preſent Yeare. 1621.

THe Anomalia of the Æquinoctiall is 5 ſex. 53 degr: 14 min: 36 ſec.

The Præceſsion of the Aequinoctiall according to the Pruteniks is, 18. degrees, 17 min. 10. ſec.

The obliquity of the Zodiake is according to the ſame tables, 23. deg. 28. min. 2. ſec. but according to Tycho, and our moderne obſeruations, 23. deg. 31. min. 30. ſec

The Excentricity of the ☉. by the Prutenickes, and the Gregorian tables is 32202. the totall beeing 100000. or, 1. part, 55. min. 55. ſec. 37, thirds, But according to Tycho, it is 2. parts. 9. min. the totall 60.

		gr.	m.	ſe.	
	Saturni,	29.	48.	17.	♐
	Iouis,	7.	5.	31.	♎
Aux. vel	Martis,	28.	59.	18.	♌
Apogeon.	Solis,	10.	3.	3.	♋
	Veneris,	16.	38.	10.	♊
	Mercurij,	0.	54.	51.	♐

Note the Apogeon of Sol is by the obſeruation of Tycho Brahe, & our late Aſtronomers, in 5. d. 52. m. 39. ſec. of Cancer.

Saturne finiſheth his laſt yeares retrogradation the 21. of February, and beginneth it againe, October, 24.

Iupiter is retrograde from the 2. of October, till the end of the yeare.

Mars likewiſe from March 23 till the 3. of Iune.

Venus is not retrograde all this yeare.

Mercurie goeth backward till the 19 of Ianuary, and from the 23. of Aprill, till the 15. of May, and from the 17. of Auguſt, till the 9. of September: and from December. the 11. till the end of the yeare.

A plaine and easie Table shewing the beginning, ending, & continuance of euery Kings *Raigne since the Conquest, with how long it is since* the Ending of any of their Raignes this present yeare. 1621. Heretofore set forth by others, and now continued for the benefit of such as shall vse the same.

The K. names.	Began his Raigne.	Raigned. yea: mo: Dayes.	Since his Raigne.
W: Con:	1066 Octo. 14	20 y. 11 m. 14 d.	534 Sept: 9.
W: Ruf:	1087 Sept. 9	12 y. 11 m. 17 d.	521 Aug: 1.
Henry 1	1100 August 1	35 y. 4 m. 11 d.	486 Dec. 2.
Stephen:	1135 Decemb 2	18 y. 11 m. 18 d.	467 Oct. 25.
Henry 2	1154 Octob 25	34 y. 9 m. 1 day	432 July 6.
Richa: 1	1189 July 6	9 y. 9 moneths.	422 Aprill 6.
Iohn	1199 Aprill 6	17 y. 7 m. 13 day.	405 Oct. 19
Henry 3	1216 Octob 19	56 y. 4 weekes	349 Nou. 16
Edwa: 1	1272 Noue. 16	34 y. 8 m. 6 dais	314 July. 7.
Edwa: 2	1307 July 7	19 y. 7 m. 5 daies	295 Jan. 25.
Edwa: 3	1326 Jann. 25	50 y. 5 m. 7 dai.	244 June 21
Richa: 2	1377 June 21	22 y. 3 m. 14 da.	222 Sept. 29
Henry 4	1399 Sep. 29	13 y. 6 m. 3 dai.	209 Mar. 20
Henry 5	1412 March 20	9 y. 5 m. 24 d.	199 Aug. 31.
Henry 6	1422 August 31	38 y. 6 m. 8 da.	161 Mar. 4.
Edwa: 4	1460 March 4	12 y. 5 m. 1 da.	138 Aprill 9.
Edwa: 5	1483 Aprill 9	0 y. 2 m. 18 d.	138 Jan. 22.
Richa. 3	1483 Janua. 22	2 y. 8 m. 5 daies	136 Aug. 22.
Henry 7	1485 Augu. 22	23 y. 8 m. 19 d.	112 Aprill 22
Henry 8	1509 Aprill 22	37 y. 10 m. 2 da.	75 Jan. 28.
Edwa. 6	1546 Janua: 28	6 y. 5 m. 19 da.	68 July 6.
Mary	1553 July 6	5 y. 4 m. 25 da.	63 Nou. 17.
Elizab.	1558 Nouem: 17	44 y. 4 mo. 15 d.	18 Mo. 24
K. Iam.	1602 March 24	Act. March 24	19 yeares.

Out of the Kalender by the Moones place (*there noted euery day at noone*) *may bee made these vses.*

Elections Medicinall, & Phisicall.

First vse not Physicke or Phlebotomie in the Dogdaies, nor in the coldest of Winter, or heat of Sommer: Except in case of necessity.

Let blood for { Sanguine, Colericke, Melancholicke, Flegmaticke } The moon being in { ♓ ♋ ♑ ♓ ♎ ♒ ♈ ♐ ♒ }

With this caution, that the moone be not in that signe which ruleth that member, nor in coniunction, or opposition with ♄ ♂ ☿, nor at any time when ☿ is combust.

In Youth from the change to the first quarter.

In middle age till 38, from the first quarter till the Full.

In declining age till 56, from the Last Quarter till the change, not vnder 14, nor aboue 56 yeares.

Purging.

When the Moon is in ♋ vse Electuaries. In ♑ vse Vomits In ♓ vse Pills.

Vomits, Clisters, Neesings, Gargarisme } may be vsed when the Moone is in { ♈ ♉ ♑ ♈ ♎ ♏ ♋ ♌ ♍ ♋ ♈ }

Bathing.

For grosse bodies the Moone being in ♈ ♌ ♐.

For dry bodies the moone in ♋ ♏ ♓.

Husbandly Elections.

BEfore you plant or graft, consider the wind, if it be in the North, or East, spare your labour, for those winds are nipping, dry and parching.

Generally plant & graft in the ending of Autumne, or beginning of the spring, the Moone increasing in ♉ ♍ ♑ or ♓.

Fell Tymber to continue, from Michaelmas, to Christmas, and Astrologians say (how truely I know not) that if you build with windfall timber, your buildings are apt to be blowen downe, in felling let the weather be neither wet nor

winds

windy. Fell coppice the first quarter the moone in ♌ or ♍. Sow seeds that bee round as Onions, Dunions, Turneps, Cowcumbers, Cabages 3 or 4 dais before the full. Sow Cotne, Pease, & Fitches, in February or March, the moon in ♓ ♈ ♉. Sow Wheat, Rye & Barley, the moone in ♋ ♌ ♍ ♎.

Astrologians affirme by their Art, that what Cotne or Trees soener are sowed or set whilst the Sunne or Moone be eclipsed never prospereth, or commeth to good, and the rule is, solis et Lunæ Eclipsis, spem fructus eludet. And any Cotne or plant set or sowed within 6. houres before or after the full of the Moone in Summer, and before or after the new Moone in Winter, having joyned with them the colmicall rising of Arcturus, & Orion, the Hædi, and the Siculi, is subiect to blasting, & canker.

Of Astronomie in generall.

Astronomie being an excellent science, whereby we may in part understand the mighty power & unsearchable wisdome of the worlds Creator, by the fabricke, & order of his creatures, especially of those heavenly Orbes ordered, disposed, and governed, in heavenly equipage, & lustre: it is no marvell though it rauish the minds of men to search, & dive into the abstruse & most intricate knowledge of that heauns, supernaturall & superexcellent Art:

Yet so it is, that God seeing this curious inclination of his mortall creatures, to pite too far into his secresies, hath barred vs vp with ignorance of some things, with uncertenty of others: so that yet never man breathing vpon the face of this mortall Globe, could ever attaine the certaine & perfect knowledge of the Motions, much lesse of the influences of Celestiall Orbes, & Luminaries: For although it cannot well be denied, but that Mundus superior vnitus est mundo inferiori: And that the constellations of heauen doe poure out their influences, & worke vpon these inferiour bodies, yet all things are inveloped with a curtaine of secretie: and what knowledge that man hath is uncertaine, and he seeth these things but as in a mist.

And reason confirmeth it, for how can we find out the true time, and nature of the influences of the heauens & celestiall bodies, whom as yet no man euer attained to the exact knowledge of their motion, scite, & aspects.

Let vs but consider the Alphonsine tables, & compare them with the Pruticnicks: and in the very ground of their computation there is 14 hours difference of the suns motion. Again let vs compare the calculation of the Pruticnicks after the doctrine of newer sufficiently prayled Copernicus, with the grounds of that Phœnix of Astronomy Tycho Brahe, & there is 6 hours difference of the suns motion. So that it is to be confessed that all our tables yet extant haue not attained the exact motion of the Planets, and so those Ephemerides calculated by those tables are not absolutely true. And Gemma Frisius hath obserued that ye true motion of Mars doth many times differ from the motion by the tables 2 deg: 30 min: as he found out by demonstratiue obseruations.

The causes why Astronomers haue not attained to exactnes in placing the fixed starres both according to Longi: & Latit. plainly appeareth by that which Tycho Brahe hath deliuered Cap. 2. Progymnasm. And more particularly he sheweth the reasons why Copernicus erred, notwithstanding his great skil and admirable dexterity & apprehension (for Aliquando bonus dormitat Homerus) both in the excentricity & place of the Apogeum of the Sunne: and so by consequent in the whole course of the motion of that Planet, whose motion of all others is most regular, & easiest to be obserued. For first he mistooke the elevation of the Pole for that place wherin he was, assuming it lesse then indeede it was by 2 min: and 3 quarters, as Tycho Brahe afterwards made tryall, so that he failed 2 min. and 3 quarts: in the true declination of the sun, & so varied the true ingresse of the sun into the Solstitiall points at least 5 hours and an halfe of time. Secondly, he made by this meanes the obliquity of the Zodiacke 3 min. and more too little, for by his rules & tables it is 23 de. & 28 mi. but since it hath been found by others, 23 deg: 31 mi. 30 sec. Thirdly he obserued not exactly the refraction of the sun, but tooke his aime at the entrance of the sun in such an oblique Horizon as Copernicus vsed in, (the Pole being mounted 54. deg: at least) that it differed at the least 13 min. in Longitude, which is the motion of 5 hours and an halfe.

And whereas Master Ruddon in his Almanacks the last yeare did promise to set forth an Ephemerides for certaine yeares yet to come, according to the exactest obseruations

of

of the Noble Lantgraue of Heſſen, Tycho Brahe, Keppleru⁹, & other beſt moderne Aſtronomers, it muſt needs be acknowledged the trueſt of all other, and a worke to be very gratefully accepted of all thoſe that haue any taſt of the ſweetnes of that ſcience. And ſeeing the worke will proue ſo profitable to others, and ſo painfull & laborious to the author (as euery one that knoweth what belongeth to Aſtronomi⁹ calculations in that kind, muſt needs confeſſe) I could wiſh mine acquaintance with him were more intimate, and the place of my habitation leſſe remote, that I might be partaker with him of his paines, and helpe to beare ſome part of that beam that will lye ſo heauie on his backe in vndertaking ſuch a worke, which I pray God he may be enabled with ſtrength & health to bring to perfection, according to his promiſe, and the intent of his honeſt heart.

A Deſcription of the Foure Quarters of the Yeare, with the diſpoſition of the ſame.

Of the Winter.

The Winter Quarter Aſtronomicall of this yeare 1621. according to the common doctrine of Aſtronomers, and eſpecially of Tycho Brache, began the 11. day of December in the yeare 1620. at 11 of the clocke, in the morning, at which time the ſun entred into the firſt min: of Capricorne, being then declined from the Æquinoctiall 23. deg: 31. min: 30 ſec: (after the obſeruation of the ſaid Tycho) to the ſouthwards, determining with vs the ſhorteſt day, and longeſt night. The day being then with vs at Yorke 7. houres, and 2. min: and the night 16. houres, and 58. min. being 32. min: ſhorter then the day at London. And this Quarter doth continue ſo long as the Sunne is paſſing through Capricorne, Aquarius, & Piſces, euen till the 10. of March following. This Winter ſeaſon is by nature cold, moiſt, and vncomfortable, and dangerous to Trauellers both by Sea & Land: more troubleſome to old perſons then

to yong, by reason that the lively heat of youthful blood doth mitigate and resist the superfluous malignancy of cold moist humours, whereas the coldnesse of age doth yeeld to them.

The diseases incident to this quarter, are Agues of all sorts, Gouts, Sciaticas, & other Aches ingendred by Rheumaticke matter distilling along the body, Stitches in the side & back, Dropsies, Consumptions, &c.

Of the Spring.

The Sunne the most glorious eye of the world, and comforter of nature, having made his revolution through the Zodiacke, beginneth his taske againe upon the 10. of March, at 8. a clocke, in the morning, at which time the dates & nights are of equall length through the world, the Pole being mounted above our Horizon at Yorke, 54 deg: 20. min. And this quarter continueth till the 11. of June, whilst the Sun passeth through Aries, Taurus, & Gemini. This season is comfortable & doth reuiue & quicken the spirits of men & all other vegetatiue creatures on the North side of the Equinoctiall line, which before were dulled by the uncomfortable and disastrous foregoing Winter. Now the earth beginneth to adorne her selfe in the gorgious liuery of Dame Flora: Now all creatures reioyce & multiply, and the blessings of God for the preseruation and comfort of mans life appeareth.

The sicknesses like to raigne & rage this Quarter, are Small pores, Measels, Squinances, hot feauers, Megrim, paine in the eyes, and diseases about the smal of the Backe, with other Maladies proceeding from the corruption of blood, which now beginneth to abound: And therefore now is the best time to vse Phebotomy, and purging of noctious humours, which are the causes of all bodily diseases. But woe that you take counsel of

of the learned, and play not hand ouer head, least you repent too late, and with anguish of heart cry had I wist, for dealing with quacksaluing Emperickes & dog-leeches, whose Phisicke is more dangerous then the disease.

Of Summer.

NOw bright shining Phœbus is approached nérest to our Zenith, and is at his farthest declination towards the North, being mounted aboue our Horizon, 59.d:10.m: making the longest day 16. hou: 58. mi: & the shortest night 7. hou: 2. mi: The sun entreth into ♋ first min: of Cancer, the 11. of June about high noone, this season continueth vntill the 13. day of September, whilst the Sun walketh his station through Cancer, Leo, Virgo. This season is hot & dry according to the naturall disposition, & of complexion Cholericke, which humor of Choller increaseth now more then any season: now is heat at the highest, the winds lowest, and the sea calmest wherby the fruits of the earth are brought to maturity & ripenes, & all kind of cattell to fatnes: Now Marchants and Mariners doe vndertake voyages to bring home forraine commodities, and increasing their owne wealth: Now flowers & fruits are pleasantest & dantiest, the birds most melodious & ioyfull, the Bées most busy & mellifluous, venemous Serpents most abondant and dangerous.

The sicknesses most like to preuaile on mens bodies this quarter, are (according to the iudgment of Hyppoc. & other learned Phisitions) hot Apostumes & Inguines, Frenzies, Madnes, Apoplexies, hot burning feauers, Inflāmations of the eyes, vlcerations of the mouth, paine & griefe in the bladder, fundament, and priuities, proceeding of hot, slimy & sharpe humors, especially to yong men betwixt xx. & xxx. yeares of age, and women of cholericke constitutions. It is an inconuenient time to take phisicke, except in cases of extremity, and with very good aduise of the learned Phisition.

Of

Of Autumne.

This Quarter concludeth the Astronomicall yeare and is called Autumne, beginning when the Sun entreth into the first min: of Libra, which is on ỹ 13. of September, at 2 a clocke, & 39 min: in the morning making the day and night of equal length. This season is naturally cold & dry, the fore-runner of that oppressing tyrant Winter: Now the beauty of the earth beginneth to fade, & this Lady Ops our common grandmother resigneth her rich robes, wherewith she was before by the goodnes of the spring immantled: laying it by in the wardrop of nature, to resume it againe, when the violence of winter is past.

The bodyly diseases whereunto mans frailty is subiect vnto this quarter are more then many, and almost al that can bee named: but the chiefe are obstructions of the breast, & lungs, Cholicks, ioyntaches, and generally all diseases proceeding of grosse & tough fleame, incident especially to persons above 50. yeares of age. From which and all other diseases, especially the spotted Leprosie of the Soule, Good Lord deliuer vs.

A Note of the distances of the Sun, & Moone, from the Earth, and of their bignes, together with the rest of the Planets compared to the Earth.

The Semidiameter	of the	3436		
The Diameter	earth	6873	}	English miles.
The Compasse	is	21600		

June 22.	the Sun is distant	3841448		English
Decem: 21.	from the earth	3793344		Myles.

The ☽ in her	greatest altit:	is distant	230212	English
	least altitude	frō ỹ Ea.	1752365	Myles

Sol.

Sol, Iupiter, Saturne, Mars } containes the bigges of the Earth, } 166 times, 95 times, 91 times, 2 times

The Earth containes { Venus 39, Mercury 3143, Moone 39 } times.

The body of the ☉ containes the ☽ 6639 times.

Starres of the { First, Second, Third, Fourth, Fift, Sixt } magnitude containeth the Globe of the earth { 107, 90, 72, 54, 36, 18 } times.

These things are thought incredible to those which are not acquainted with Mathematicall demonstrations, for whose sake only they are set down to informe their vnderstanding, and to reforme their Iudgements.

The Heauens declare the glory of God, and the firmament sheweth his handy worke. Psal. 19. 1.

Of Eclipses this present yeare. 1621.

THis yeare the two Luminaries in the heauens shall be eclipsed, or suffer want of light.

Th first Eclipse is of the Sun on the 11 day of May, about 8 of the clocke in the morning in the East part of heauen neere to the Dragõs taile, a very great Eclipse wherein almost the the whole body of the Sun will be darkned from our sight by the interposition of the body of the Moone betwixt our sight, and the sun-beames, whereby the earth shal be depriued of her wonted light. The beginning of this Eclipse will bee halfe an houre past 6. in the morning, and so will continue before the

Sun

Sun hath recouered himselfe of the Moone 2. houres and almost 3 quarters.

The Eclipse of the Moone will happen vpon the 19 of November, neere to the Dragons taile, about 2 of ♄ clocke in the morning, at which time one third part of the body of the moone will be destitute of light, and from the beginning to the ending will be more then 2 hours.

The apparant & seene positure of the 5. Planets, and other fixed Starres in our Hemi-*sphere at Yorke, the first day of euery* Moneth.

Ianuary.

♄. 1. deg: of ♋. ♃. 11. deg: of ♉. ♂ 28. deg: of ♌. ♀. 8. deg: of ♐. ☿. 29. deg: of ♑.

Saturne is south 31. min: past 10 at night. Iupiter south at 7 in the euening, setteth 2. 19. mi: in the mor: Mars south about day breake. Venus a morning starre rising almost at 5 in the mor: Mercury is vnder ☉ sunbeams. Orions left foot south 9. 24. eue: Seauen stars south 7. 51. eue: Buls eye is south 8. 42. eue: Canis Maior is south 10. 56. eue: Lyons hart south 2. 26. mor: Spica Virginis south 5. 34. mor: Arcturus south 6. 25. morn: Lucida Coronæ south 7. 46, in the morning.

Februarie.

♄. 30 deg: of ♓. ♃ 13 deg: of ♉. ♂ 11 deg: of ♍. ♀. 14 deg: of ♑. ☿ 26 deg: of ♒.

Saturne south a quarter past 8. eue: Iupiter setteth 25. min: after midnight. Mars south at 6 in the morning. Venus riseth 5. 34. mor: Mercury is combust. Orions left foot south 7. 15. eue: Cor Leonis south 0. 17. mor: Canis Maior south 8. 47. eue: Lyons taile south 1. 49 mor. Lucida Coronæ south 5. 37. mor: South balance south 4. 5. mor: Cor Scorpij south 6. 26. mor:

March

March.

♄ 29 deg: of ♊. ♃ 17 deg: of ♉. ♂ 20 deg: of ♍.
♀ 18 deg: of ♒. ☿ 11 deg: of ♓.
Saturne ſetteth 2.46.moꝛ: Iupiter ſetteth at 11 in euen: Mars ſouth 3.46.moꝛ: Venus riſeth at 5. 27. moꝛ Mercury is yet wꝛapped in the ſuns mantle. Leſſer Dog ſouth 7.55. eue. Hydras eie ſou: 8. 52. eue. Lucida Hydræ ſouth 9.44. eue. Lyons hart ſouth 10.20 euening, Cauda Leonis ſouth at midnight. Arcturus ſouth 2.32. moꝛ: South ballance ſouth 3.4. moꝛn. Cor Scorpij, ſouth 4. 40. in the moꝛning.

Aprill.

♄ 1 deg: of ♋. ♃ 23 deg: of ♉. ♂ 22 deg: of ♍.
♀ 26 deg: of ♓. ☿ 7 deg: of ♉.
Saturne ſet at 1 moꝛ: Iupiter ſetteth 9. 35. eue: Mars ſouth at 2 moꝛ: Venus is not ſeene, Mercury ſetteth an houre & a halfe after the Sun. Cauda Leonis ſouth 10 10 eue: Rauens bill ſouth 10. 30 eue: Vindemiator is ſouth 11.19 eue: Spica Virginis ſo: 11. 30. eue: Arctu. rus ſo: 0, 40. moꝛ: Cor Scorpij ſo: 2, 47. moꝛ: Hercules head ſouth at 3, 33. in the moꝛning.

May.

♄ 4 deg: of ♋. ♃ 30 deg: of ♉. ♂ 14 deg: of ♍.
♀ 2 deg: of ♉. ☿ 24 deg: of ♉.
Saturne ſets 11, 3. eue: Iupiter is vnder the ſun-beams Mars ſouth a little beſoꝛe midnight. Venus riſeth beſoꝛe the ſun. Mercury is combuſt. Spica Virginis ſouth 9, 57, eue: Arcturus ſouth 10.44 eue: Serpentarius head ſouth 2, 4. moꝛ: Dꝛagons head ſouth 2.35 moꝛ: Lyra ſouth 3, 10 moꝛ: Eagles taile ſouth 3, 34. moꝛ: Eagles hart ſouth at 4, 15 in the moꝛning.

Iune.

♄ 7 deg: of ♋. ♃ 7 deg: of ♊. ♂ 6 deg: of ♍.
♀ 10 deg: of ♊. ☿ 20 deg: of ♉.
Saturne ſet 9, 14. eue: Iupiter riſeth 3, 12 moꝛ: Mars is ſouth at 9 eue. Venus is neere the Sun, Mercury can hardly be ſeene.

South

South ballance south 9 14. eue: North ballance sou: 9.40.eue: Alpheta Gnosia south 10.1. eue: Cor Scorpij south 10.50. eue: Eagles taile south. 1.40. morni: Eagles hart south 2.13. morning.

Iuly.

♄ 11 deg: of ♋. ♃ 14 deg: of ♊. ♂ 11 deg: of ♍.
☿ 17 deg: of ♋, ☿ 22 deg: of ♋.
Saturne, Venus, and Mercury are nerely conioyned with the sun, & vnder his beames, Iupiter riseth 1.30. mor: Mars south 11.6. eue: Eagles taile south 11. 6. euen: Dolphins taile south 1. mor: Eagles hart sou: 9. mor: Left shoulder of Aqua: south 1. 52. euening.

August.

♄ 15 deg: of ♋. ♃ 20 deg: of ♊. ♂ 24 deg: of ♍.
☿ 25 deg: of ♌. ☿ 16 deg: of ♍.
Saturne riseth 3 quarters after midnight. Iupiter riseth before midnight. Mars setteth 10.12. eue: Venus scorched by the sun. Mercury set 8.11. eue: Eagles Hart so: 10.6.eue: Dolphins taile so: 10,57. eue: Yawning of Pegasus so: 0.22 mor: Fomahant sou: 1 18.mor: Pegasus shoulder so: 1.22. mor: Andromedas head s. 2.27. m.

September.

♄ 16 deg: of ♋. ♃ 24 deg: of ♊. ♂ 12 deg: of ♐
☿ 3 deg: of ♎. ☿ 17 deg: of ♍
Saturne riseth at midnight. Iupiter riseth 10.14. eue: Mars setteth 9. 11. eue: Venus is hardly seene in euen: Mercury attendeth at his masters chamber doore. Pegasus mouth so: 10.11.eue. Fomahant south 11.24. eue: Pegasus shoulder south 11.24.eue. Andromedas head so: 0:33.mor. Aries head south 2.17. mor: Heauen stars south at 4. 5. morning.

October.

♄ 21 deg: of ♋. ♃ 25 deg: of ♊ ♂ 2 deg: of ♑.
☿ 10 deg. of ♍. ☿ 4 deg: of ♎.

Saturne

Saturne ſouth 6.22. moꝛ: Iupiter ſouth 4.34. moꝛ: Mars ſouth at ſun-ſet. Venus is an euening ſtarre: Mercury ſetteth 45 mi: paſt 6 at night. Crus Pegaſi ſo: 9.35. eue: Andromed. head ſouth 10.44. eue. Aries hoꝛne ſouth 0. 28. moꝛ: Heauen ſtars ſouth 2.16. moꝛ: Oculus Tauri ſouth 3.7. moꝛ: Humerus dexter orionis ſo: 3.58. moꝛ:

Nouember.

♄ 21 deg: of ♋. ♃ 24 deg: of ♊. ♂ 25 deg: of ♍.
♀ 19 deg: of ♐. ☿ 29 deg: of ♏.

Saturne ſouth 4.22. moꝛ Iupiter ſouth 2.27. moꝛ. Mars ſouth after ſunſet. Venus ſetteth 5.51. eue: Mercury is ſafely lodged foꝛ being ſœne. Aries hoꝛne ſou 10.28. eue. Heauen ſtars ſou: 0.16. moꝛ: Bulls eie ſou: 1.7. moꝛ: Orions left ſhoulder ſou: 1.58. moꝛ: Orions right ſhoulder ſou: 2.35 moꝛ: Canis maior ſouth 3.33. moꝛ:

December.

♄ 20 deg: of ♋. ♃ 21 deg: of ♊. ♂ 17 deg: of ♎.
♀ 26 deg: of ♍. ☿ 8 deg of ♍.

Saturne ſouth 2.9. moꝛ: Iupiter ſouth at night. Mars is ſouth after ſun-ſet. Venus ſetteth 6.15. eue: Mercury is 3 quarters behind the ſun. Rams horne ſou: 8.21. eue: Heauen ſtarres ſouth 10.9. eue. Buls eie ſouth 11. eue: Orions left ſhoulder ſouth 11.51. eue. Orions right ſhoulder. 0.18. moꝛ. Canis maior ſouth 1.26. moꝛ: Canis Minor ſouth 2.17. moꝛ: Cor Leonis ſouth 3.10. moꝛ:

These fixed ſtars are ſet downe foꝛ good purpoſe to know the exact houre of the night, and they alter 4. mi: euery day moꝛe oꝛ leſſe. Eue: ſtandeth foꝛ euening, & Moꝛ: foꝛ moꝛning. And it is vſefull, pleaſurable, and pꝛofitable foꝛ Gentlemen, Schollers, Phiſitions, and Mariners, and generally all ſoꝛts of men who delights in Mathematicall ſpeculations.

A rule to know when it is ful Sea in most of the Coasts of England, and the point of the compasse the moone is in.

FIrst find the age of the ☽, in the Kalender for the time you desire, then looke in this ensuing table at what time she commeth to south, and to that time so found in the table, and name of the place for which you seeke, and see how many houres & minuts be annexed thereunto, which if ad to the moones comming to south, you haue the time of full Sea for that place, except the the violence of winds do hasten or hinder the tide, and you haue also the point of the compasse the moone is in at full Sea in that place.

the age of the Moon.		her co-ming to south,		The names of the places.	ad thet to her south		Points of the Com. passe.	
Daies.		H.	M.		H.	M.	S.	N.
1	16	12	48	Sout. Muth. Hortf.	0	0	S.	N
2	17	1	36	Redban, Aberden,	0	45	S by W	N by E
3	18	2	24	Grauesend, Than.	1	30	S S W.	N N E.
4	19	3	12	Don. S. Andrews.	2	15	S w by S	n. e b. E.
5	20	4	0	Lond: Tinm. Gast.	3	0	S W.	N E.
6	21	4	48	Barwick, Dikend,	3	45	S w by w	n e by e
7	22	5	36	Leith, West of Irel.	4	30	W S W	e N e.
8	23	6	24	Falm. Hat: Garul:	5	15	W b S	E by N
9	24	7	12	Yum. Plim. Wey.	6	0	E.	W.
10	25	8	0	Brikoll, Lanion,	6	45	E by S.	W by n
11	26	8	48	Milf. Mouth of En:	7	30	E S E.	W n W
12	27	9	36	Portlan. Peterport,	8	15	S E b. E	n w b. w
13	28	10	24	Dyken. poole, Dam,	9	0	S. E.	N W.
14	29	11	12	Deep. Needs Caste:	9	45	S E b. S	n w b. o
15	30	12	0	Calice. Rye, Winc.	10	30	S by E.	N by w

Example.

This yeare 1621. on the 21 of Feb: the ☽ is 10. da: old: I would know when it will be ful sea at Humb. I find the ☽ will be sou: at 8 a clock, to which I ad 6. standing against Hum. the totall is 14. so full sea at Humb. is 14 hou: afternoone, that is at 2 a clock in the mornig, and the ☽ is west: This is the common opinion, but whether it be iust west, let the Maisters of Astronomy iudge.

A Table shewing how to find the Moueable Feasts, which may be tearmed the Kalenders Key.

Golden number	0	1	2	3	4	5	6	Concurrent dayes.
	a	b	c	d	e	f	g	Dominicall Letter.
1	8	8	8	8	7	7	7	
2	6	6	6	6	6	6	6	
3	9	9	9	9	9	8	8	
4	8	7	7	7	7	7	7	
5	6	6	6	6	5	5	5	
6	9	9	8	8	8	8	8	
7	7	7	7	7	7	6	6	
8	10	10	10	9	9	9	9	
9	8	8	8	8	8	8	7	
10	7	7	6	6	6	6	6	
11	9	9	9	9	9	9	9	
12	8	8	8	7	7	7	7	
13	6	6	6	6	6	6	5	
14	9	9	9	9	8	8	8	
15	7	7	7	7	7	7	7	
16	6	6	6	5	5	5	5	
17	9	8	8	8	8	8	8	
18	7	7	7	7	7	6	6	
19	10	10	9	9	9	9	9	

If you desire to find the distãce of Christmas & Shrouetide called Interuallum minus, seeke for the Golden number for that year on the left side of the Table, and for the dominicall Letter, at the top: and in the common angle or meeting are the number of weeks betwixt those feasts, & aboue the sunday Letter are the od daies to be added. Example.

An. 1621. the Sunday Letter is G, & the Golden number is 7. so looking for the cõmon meeting; I find 6. for 6 weekes: and aboue the dominicall Letter standeth 6. for 6 da. so it is 6. weeks, and 6. daies betwixt those Feasts.

Multiply 6. by 7. the daies in a weeke, it maketh 42. to which ad the 6. od da. the total is 48. da. to this alwaies ad 1. so it is 49 da. from this abate 7. for the od daies of December, remaineth 42. da. wherof January alloweth 31. daies, so remaineth 11 dayes for the month of February, whereupon I conclude the 11. of February to be Shrouesunday: to this ad 49. wherof Feb: alloweth 17. & March 31, in all 48. which taken out of 49 leaueth 1. for the 1 of April, Easter day. From this count 49. dais. April alloweth 29, so remaineth 20. for May, whereupon Whitsunday falleth.

Note that the accompt beyond Sea doe keepe their moueable feasts somtimes with vs, as this present yeer 1621. somtimes a week before vs as the last yere 1620, somtimes 5 weekes as the next yeare 1622. wheras all their moueable feasts are alwaies 10 da. before ours.

Note also that according to the common consent of all Astronomers, ye day light shutteth notin at Yorke at all, but is perpetuall day-light from the 4. day of May, till the 19 day of July. And in the shortest day in Winter, when the Sun entreth into Capricorne, the day doth breake a quarter of an houre past 6. in the morning, and shutteth in a quarter before 6. at night. which 6. houres, 15. min: being substracted from 8. 29. min: at which time the Sun doth rise at Yorke, there remaineth 2. hou: 14. min: for the length of twilight before sun-rising at Yorke. wheras at London the day breakes at 6. a clock, 8 min: and riseth at 8. 13. min: so the space betwixt day breake & sun rising at London, is 9 minuts lesse then at Yorke. So that although the shortest day at London be longer then at Yorke, 32. min: betwixt Sun rising and setting, yet betwixt day breake in the morning & twylight at night it is but 14 min: longer. He that desireth demonstration of these things, let him consult with Clavius Metius, & other, & with Petrus Nomius, who hath of purpose set forth a booke de Crepusculis, where he shall find content.

Ludis & indulges genio, sed labitur ætas,
Labitur, & nunquam quæ fuit illa redit.

Whilst thou dost sport & play, thy time doth passe away:
Doth passe and doth not stay, nor will returne for aye.

The Authors Meditation.

O mea mens sursum, mortalem dirige cursum,
mens obsita soli, suspice regna poli,
Oh thou my mind on hye, thy mortall course apply,
forgetting earthly ishuls, the heauenly thrones behold.

The

The Geographicall description of *waies from one norable Towne to another*, ouer all England, and therby how to trauell from any of them to the City of *London*: set forth after a new order, by *A. H.*

NOte that the figures in the rowes vnder this marke * is the distance of that towne they stand against, from London, or from the towne you are directed vnto.

From Yorke to London 150 miles.

From Yorke goe first to Tadcaster which is 8 miles.

Thence to	miles	*	Thence to	miles	*
Wembridge	12	130	Stilton	12	57
Doncaster	7	123	Huntington	9	48
Tuxford	18	105	Royston	15	33
Newmarket	10	95	Ware	13	20
Grantham	10	85	Waltham	8	12
Stanford	16	69	London	12	

From Norwich to London 86 miles.

From Norwich go first vnto Windham, which is 5 miles.

Thence to	miles	*	Thence to	miles	*
Acleborrough	5	76	Barkeway	10	30
Thetford	10	66	Buckeridge	5	25
Ickingham sands	6	60	Ware	5	20
Newmarket	10	50	Waltham	8	8[illegible]
Whitford bridge	10	40	London	12	

From Yarmouth to Colchester, and so to *London*, 92 miles.

From Yarmouth goe first to Lestiffe, 6 miles.

Thence to	miles	*	Thence to	miles	*
Bildbur	10	76	Rotterdon	18	35
Snap-bridge	8	68	Chelmsford	10	25
Wood-bridge	6	62	Brent-wood	10	15
Ipswich	7	55	London	15	
Colchester	12	43			

From Walsingham to London, 82 miles

From Walsingham to Pickham, 12 miles, thence

		miles	*		
E	Brandonferry	10	60	E	London, as in Norwich way.
	Newmarket	10	50		
	Whitfordbridge	10	40		

From Cockermouth to Lancaster, and so to London, 223 miles.

First goe from Cockermouth to Riswike 6. miles,

		miles	*			miles	*
thence to	Grocener	8	217	thence to	Couentry	8	82
	Kendall	14	203		Deuentry	14	74
	Burton	7	195		Tocester	10	60
	Lancaster	8	188		Stonistratford	6	50
	Preston	20	168		Brickhill	7	44
	Wigan	14	154		Dunstable	7	30
	Warinton	12	142		S. Albons	10	20
	New-castle	20	122		Barnet	10	10
	Litchfield	20	104		London	10	
	Colesill	12	90				

From Barwicke to Yorke 108 miles.

So first to Belford, which is 12 miles.

		miles	*			miles	*
thence to	Anwicke	12	84	thence to	Darington	14	34
	Morpit	12	72		Northalerton	10	24
	Newcastle	12	60		Topcliffe	7	17
	Durham	12	48		Yorke	17	

From Shrewesbury to Couentry, and so to London, 126 miles.

From Shrewesbury goe to Watlingstreete 7 miles,

		miles	*			miles	*
thence to	Shefnall	5	114	thence to	Meriden	10	86
	Banningall	3	111		Couentry	4	82
	Wolverhampton	5	106		London as in Lancaster-way.		
	Bremicham	20	96				

From

From Cambridge to London, 44 miles.

First go to Royston from Cambridge, 10 miles, thence

		miles	°			miles	°
8	Barke-way	4	30	2	Waltham	8	12
	Buckerings	5	25		London	12	
	Ware	5	20				

From Oxford to London, 47. miles.

From Oxford go to Wheatley-bridge, 5 miles, thence

		miles	°			miles	°
8	Tetsworth	5	37	2	Beconsfield	5	12
	Stoken-church	5	32		Uxbridge	7	15
	Wickam	5	27		London	15	

From Ludlow to worcester, and so to London, 106 miles.

From Ludlow go to Tenbury, which is 15 miles.

		miles	°			miles	°
thence to	Worcester	16	85	2	Wickam	20	27
	Eutsham	12	73		Beconsfield	5	22
	Chippingnorton	14	59		Uxbridge	7	15
	Islip	12	47		London	15	

From Carmarthen to London.

Go first to Laundovery, which is 20 miles, thence

		miles	°			
28	Beith	14	135	2	London, as in Lam-	
	Brecon	12	123		bey way.	
	Worcester	26	85			

From S. Davids to Hereford and Glocester, and so to London. 210 miles.

From S. Davids go to Trefgin, 12 miles.

thence to	miles	*
Carmarthen	24	174
Neuton	12	162
Lanbury	10	152
Brecknocke	16	136
Hay	10	126
Herefard	14	112
Ross	19	93
Glocester	12	81
Cicester	15	66

thence to	miles	*
Farington	10	56
Abington	10	46
Dorcester	5	41
Henley	12	29
Maidenhead	7	22
Colebrooke	7	15
Hunslow	5	10
London	10	

From Carnaruan to Chester, and so to London, 207 miles.

Go first into Conaway, which is 24 miles.

thence to	miles	*
Denbigh	12	162
Flint	12	160
Chester	10	150
Nantwich	15	135
Stone	15	120

thence to	miles	*
Lichfield	18	102
Coleshill	12	90
Coventry	8	82
London, as in Cotkermouth way.		

From Bristow to London, 97 miles.

First go to Marshall which is 10 miles.

thence to	miles	*
Chipnam	16	77
Whitchurch	15	62
Hungerford	8	54
Newbery	7	47

thence to	miles	*
Reading	15	32
Maidenhead	10	22
Colebrooke	7	15
London	15	

From Exceter to London, 138 miles.

Go first into Honiton which is 12 miles.

thence to	miles	*
Chard	10	116
Crookehorne	6	110
Sherborne	10	100
Shaftsbury	12	88
Salisbury	18	70
Andouer	15	55

thence to	miles	*
Basingstoke	16	39
Hartherow	8	31
Bagshot	8	24
Staines	8	15
London	15	

From

From Douer to London 55 miles.

First go vnto Canterbury which is 12 miles, thence

		miles	'			miles	'
2	Sittingborne	12	32	2	Dartford	6	12
	Rochester	8	23		London	12	
	Graueſend	5	18				

From Rye to London 48 miles

First go to Bilnwell which is 15 miles, thence

		miles	'			miles	'
2	Tunbridge	11	23	2	London	15	
	Cheyſlow	7	15				

From Southampton to London 64 miles.

Go first vnto Twiford which is 8 miles, thence

		miles	'			miles	'
2	Alford	8	48	2	Ripley	5	20
	Alton	7	41		Cobham	5	15
	Farnam	7	34		Kingſton	5	10
	Gilford	9	25		London	10	

From Chicheſter to London, 50 miles.

Go first to Midhurſt, which is 7 miles, thence

		miles	'			miles	'
2	Chidingfold	10	33	2	Cobham	5	15
	Gilford	8	25		Kingſton	5	10
	Ripley	5	20		London	10	

From Couentry to Oxford 44 miles.

First goe vnto Southam, 14 miles, thence

		miles	'			miles	'
2	Banbury	10	24	2	Oxford	6	
	Woodſtocke	14	6				

From Couentry to Cambridge, 46 miles

Go first to Dunchurch, which is 8 miles, thence

		miles	'			miles	'
2	Northampton	10	28	2	S. Edes	8	10
	Higham-ferrers	10	18		Cambridge	10	

From

From Briſtow to Oxford, 48 miles.

Go firſt unto Sadbury, 10 miles, thence

		miles	miles			miles	miles
2	Cicester	12	26	2	Oxford	12	
	Faringdon	14	12				

From Briſtow to Shrewſbury, 70 miles.

Firſt go to Awker, which is 8 miles, thence

		miles	miles			miles	miles
8	Munmouth	10	52	8	Ludlow	8	20
	Hereford	12	40		Shrewſbury	20	
	Lempſter	12	28				

There is another way to go to Shrewſbury from Briſtow, as to Glocester, Tewkeſbury, Worceſter, and Bridgnorth, &c. but it is 17 miles further, and then you paſſe no ferry.

From Yorke to Shrewsbury, 103 miles.

Go firſt to Wetherby, which is 7 miles,

		miles	miles			miles	miles
thence 8	Otley	13	83	thence 8	Norwich	16	36
	Bradford	6	77		Brereton-wood	9	26
	Halifax	6	71		Whitchurch	10	16
	Blackſton-edge	6	65		Nuce	4	12
	Roch-dale	6	59		Shrewsbury	12	
	Manchester		51			8	

FINIS.